US ERA ARCHIVE DOCUMENT

DATE: January 28, 1981

UBJECT: EPA File Symbol: 464-LAG

LONTREL 205 Herbicide: Caswell # 323H / 315

FROM: Deloris F. Graham Df # 2/2/8/

E 2/3/81 FHB/TSS

TO: Richard Mountfort Product Manager (23)

Applicant: Dow Chemical U.S.A.

Agricultural Products Division

P.O. Box 1706

Midland, Michigan

Attention: Robert F. Bischoff

Active Ingredients:

3,6-Dichloropicolinic Acid.....

(DOWCO 290)

phenoxy acetic 2.4-Dichloropie (2,4-D Acid)

Inert Ingredients..

Background: Submitted Acute Oral, Acute Dermal, Acute Inhalation, Eye Irritation and Skin Irritation studies. These studies were conducted by DOW. "Cite-All" method of support. These data are under accession number 243804.

Recommendations:

- (1) FHB/TSS finds the Acute Oral, Acute Dermal, Eye Irritation and Skin Irritation studies are acceptable to support the conditional registration of this product. However, for future submissions, please note:
 - (a) In the Acute Dermal study, 5M and 5F animals per dose must be used.
 - (b) In the Eye Irritation study; 9 animals, 6 animals with treated unwashed eyes and 3 animals with treated washed eyes, must be used.
 - (c) In the Dermal Irritation study, individual 24 and 72 hours readings after a single dose application must be taken.
- (2) The Acute Inhalation study was not acceptable. An actual concentration of 5 mg/1 must be used.
- (3) These data are acceptable for the formulation submitted however the label is not acceptable because it closes it reflect the farmulation used.
- (4) (4 laber reflecting farmulation used must be submitted.

Label:

- (1) The appropriate signal word is DANGER for this for
- (2) Further labeling resusion will be s. the appropriate label is submitted

Review:

(1) Acute Oral Toxicity Study: DOW; October 3, 1974.

Procedure: 5 groups, each group consisting of 5M the following doses: 252, 500, 1000, 2000 or 3980 were recorded. Observations were made periodical1

Results: At 252 mg/kg 1/5M died, but this death we the treatment; at 200 mg/kg, 1F died; at 3980 mg/k Other signs of toxicity include lethargy and increaround the nose and eye in some animals. The Acut was determined to be 3730 mg/kg with 95% confidence mg/kg. The Acute Oral LD50 for females was 2830 m confidence limits of 1930-4150 mg/kg.

Study Classification: Core Guideline Data.

Toxicity Category: III - CAUTION

(2) Acute Dermal Toxicity Study: DOW; October 3, 1974

Procedure: 2M and 2F rabbits received a 3980 mg/k material. The treated areas were placed under occ exposure. Animals were observed frequently during weeks after exposure.

Results: No mortalities. Slight to moderate eryt to slight edema. Diarrhea present in one animal f Majority of animals gained weight. The Acute Derm females was determined to be greater than 3980 mg/

Study Classification: Core Minimum Data. 5M and must be used.

Toxicity Category: III - CAUTION

(3) Acute Inhalation Toxicity Study: DOW; October 3,

Procedure: 5M and 5F rats were exposed to an aero diluted 1 part to 8 parts with water for 1 hour is under dynamic conditions. The aerosol was deliver

entering the chamber. Airflow was maintained at a constant 25 liters per minute. The nominal serosol concentration was calculated. Aerosol particle size distribution was determined using a ROYCO particle analyzer. Observations were made for two weeks after exposure. Necropsies were performed on all animals.

Results: No mortalities. No signs of toxicity or irritation. The nominal aerosol concentration achieved during exposure was 5.03 mg/l. The number length mean diameter of aerosol particles was 2.4u with over diameter.

Study Classification: Core Supplementary Data. An actual concentration of 5 mg/l must be used.

Eye Irritation Study: DOW; October 3, 1974.

Procedure: Six rabbits received a 0.1 ml of the formulation into the conjunctival sac of the right eye of each rabbit. After 30 seconds the eye was washed for 2 minutes under a stream of tepid water. Then 0.1 ml of the formulation was instilled into the left eye, but this eye was not instillation.

Results: Corneal opacity in the washed and unwashed eyes of all six rabbits (6/6 = 20); iris irritation (6/6 = 20); conjunctive irritation with scores ranging from 3-5. Corneal opacity and all other irritation persisted thru day 7.

Study Classification: Core Minimum Data. 9 animals, 6 animals with treated unwashed eyes and 3 animals with treated washed eyes, must be

Toxicity Category: I - DANGER

Dermal Irritation Study: DOW; October 3, 1974.

Procedure: Six rabbits were applied 0.5 ml dose each day for three days to intact and abdominal skin sites. Observations were made for 3 days.

Results: At 24 hours after first application no reaction to slight erythema at all sites. After repeated exposure slight edema and slight to moderate necrosis.

Study Classification: Core Minimum Data. Individual 24 and 72 hour readings must be submitted.

Toxicity Category: III - CAUTION

24-D
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